



Test Certificate

File no.:

6150.000

Edition

07.2001

Caleo



DrägerService

Explanation of Symbols

- OK
- | Defect/error/fault
- (○ Spare parts used
- / Report
- (○ Accessories missing

- Z = Check condition
- F = Check function
- D = Check for leaks
- P = Enter value

Installation site: _____

Serial no.: _____

Date of delivery/
startup: _____Invoice no. or
delivery no.: _____

Other: _____

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If the Caleo has been in operation immediately before the general status check, allow the Caleo adequate time for the air heater to cool down.

1. Device in general

Switch on the Caleo at the power switch. Caleo runs through its self-test. The EL display shows the software version and number of operating hours.

1.1 Software version

Record software version.

1.2 Operating hours

Record operating hours.

1.3 Trolley

1.3.1 Permanently set trolley

The height of the trolley is permanently set at the factory.

The trolley is undamaged.

Z

1.3.1.1 Locking castors

Roll Caleo to and fro. The four locking castors move freely.

F

Lock one locking castor. Caleo cannot be moved to and fro.

F

Check each of the other three locking castors one after the other in the same way.

F



i

All other labels are contained in the label set (Note:
Make sure you use the correct language-specific label
set.).

Label set Caleo de, fr, it, nl	2M 50 590
Label set Caleo da, sv, no, f	2M 50 591
Label set Caleo en, es, pt, l	2M 50 592
Label set Caleo pl, cs, huru	2M 50 593
Label set Caleo en, ja	2M 50 594
Label set Caleo en, us, fr	2M 50 595

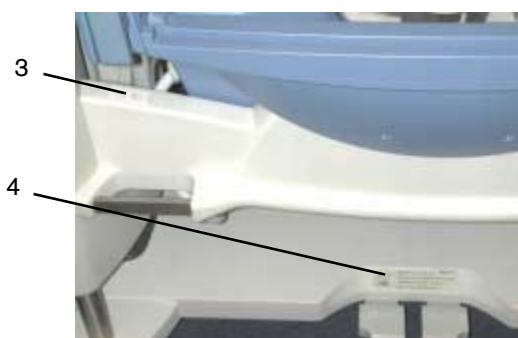
"Battery" label (1) on rear of display
housing



"Skin-temperature sensor" label (2) on
rear of sensor unit



"Hand" label (3) and "Use max. 6 min.
within 60 min" label (4) only on front of
Caleo



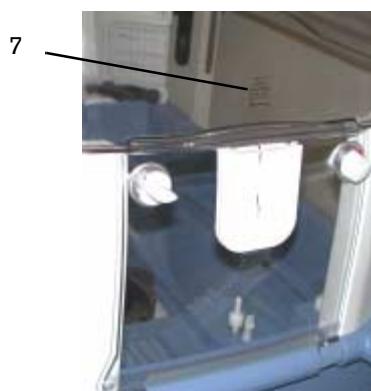

"Never block or obstruct air vents" label (5)
on front and rear of the canopy



"Never leave baby unattended when
doors are open" label (6) on front of the
canopy



"Tilt canopy" label (7) on right-hand side of
the canopy



"No spray disinfection, wipe disinfection
only!" label (8) on sensor unit



Labels are present, legible and
undamaged.

Z

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1.5	Housing trolley	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
1.5.1	The housing trolley is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
1.5.1	Rear panel of housing	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Rear panel of housing is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Take out water tank (option).	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Rear panel of device is undamaged in this area.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Guide pin is present and firmly screwed in.	Z F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Insert water tank. Ensure that the guide pin is pushed into the cap of the water tank.												
1.5.2	Grip strip with edge protector (2x)	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	The grip strip is firmly screwed on with 2 bolts. The edge protector is firmly joined to the grip strip.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
1.5.3	Small rail (e.g. for secretion suction device)	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	There is a small rail on each side of the Caleo. The small rail is firmly joined to the housing.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
1.6	Cap 2M50086	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	(if pole, long, is not fitted)												
1.7	Pole, long (option)	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Pole is firmly screwed on. Sealing plug 2M21377 is fitted.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
1.8	Pole, short	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Pole is firmly screwed on. The display housing is fitted to it. Sealing plug 2M21377 is fitted.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
1.9	Monitor tray (option)	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	The monitor tray is firmly screwed to the pole.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
1.10	Swivel drawer (optional)	Z F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	The swivel drawer is undamaged and can be swiveled.	Z F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
1.11	Nappy/diaper shelf (option)	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Nappy/diaper shelf is firmly attached to the base plate. It is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										



Incline the mattress tray of the Caleo so that the cable connections on the aggregate housing are visible. Switch off the Caleo.

1.12 Power cord

The power cord is not broken. The power plug is firmly attached to the power cord. No bared conductors can be seen.

Z

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Push the retaining bracket aside. Disconnect power plug from the inlet socket for non-heating apparatus.

Z

The inlet socket for non-heating apparatus is undamaged.

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Z

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The retaining bracket 2M50561 is undamaged.

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Plug power plug into inlet socket for non-heating apparatus. Pull the retaining bracket over the power plug.

1.13 Cable connections

1.13.1 Cable connection to display housing

Cable connection is not damaged, fractured or kinked.

Z

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1.13.2 Cable connection from trolley to aggregate housing

Cable connection is not damaged, fractured or kinked.

Z

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1.14 Power switch

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1.15 Line power socket

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1.16 Integrated multiple socket outlet

The fuse links are as specified on the rating plate.

Z

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1.17 O₂ control (option)

1.17.1 Housing O₂ NIST Caleo

Replace sintered-metal filter, see [2](#). "Spare items used".

Z

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1.17.2 DIN NIST adapter M32366 (when using DIN connecting tube)

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1.18

Water tank set, complete 2M50040

Close clamp on the conduit set MX17018
(set of 20).

Unscrew water supply connecting tube
from water connecting pipe. Take water
tank out forwards.

In case of leakages or visible impurities,
drain water tank.



**Water may leak out of the water tank while
performing the following tests.**

Open cap and cover 2M50042 of the
water tank.

Water tank, cap, and cover should be
clean and undamaged; clean or replace
them, if necessary.

Seal water tank using cap and cover.

Turn water tank such that no water can
leak out.

Pull piercing bolt off socket.

Piercing bolt is undamaged.

Socket 2M50039 should be clean and
undamaged; clean or replace socket, if
necessary.

Insert piercing bolt in socket. Set water
tank aside.

Incline the Caleo so that the water
connecting pipe is accessible. Turn water
connecting pipe 90° clockwise and then
pull out.

1.18.1 Water connecting pipe

Z	<input type="checkbox"/>
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1.18.1.1 Sealing valve at the end of the water
connecting pipe

Z	<input type="checkbox"/>
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Ball is resilient.

Z	<input type="checkbox"/>
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Sealing ring, see [2.8 "Spare items used"](#).

Assembly: Screw in water connecting
pipe. Insert water tank.

1.18.2 Checking water flow

F	<input type="checkbox"/>
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Hold up the end of the conduit set.

If distilled water has been drained, fill
water into water tank. Open clamp on
conduit set. Hold down end of conduit set.



	Water flows into a container.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	Close clamp.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	No water flows.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	Screw conduit set to water connecting pipe.														
1.18.3	Central supply (CS) connecting hose (O2-DIN) (Follow national regulations.)	Z F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	Sealing ring M07152	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	CS connecting hose is not porous or torn.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
1.19	Display housing	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	Display housing is clean and undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
1.19.1	Holder (hinged arm) of display housing 2M50149	Z F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	The holder (hinged arm) is undamaged. It is screwed firmly to the pole. Undo screws. The position of the retaining arm can be adjusted. Tighten screws firmly.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
1.19.2	Securing the display housing	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	Stud bolt 2M50128, ball joint 2M50122 , and washer are present and undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
1.19.3	Membrane keypad	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	The membrane keypad is undamaged. Labeling is clearly legible.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
1.19.4	Control knob	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
1.20	Canopy cover	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	Swing canopy cover open and place it onto a support.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	The canopy cover is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	Sealing plug 2M50352 (1x) is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	Double wall 2M50421 (option) is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	The attachment of the double wall (4x) is undamaged (Note: (If the attachment is damaged, replace the canopy cover 2M50350).	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
1.20.1	Large door 2M50360 on front and rear	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												
	Note: The following test procedure refers to one side (front or rear).														



	Large door is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Pull in the center of the top edge of the closed door.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Door must not open.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Rotate both rotary knobs (color-coding locks) to the "open" position.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Color-coding (red) is visible.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	The rotary knobs (color-coding lock) 2M50418 are undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Fold large door down.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Large door can be opened easily without getting jammed.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Both interlocks 2M50394 are undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	The six white plastic discs 2M50362 on the rear of the large door are undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	The movable double-wall moves smoothly.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Close the large door.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	The double-wall folds out in parallel to the large door.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Open the large door.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	The double-wall falls onto the large door.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Both mounts 2M50464 on the basic housing are undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Briefly press both tappets 2M50386 of the mounts.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	The tappets spring back. (Note: If the tappet springs back, spring 1344226 is OK.).	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Left-hand hinge 2M50356 is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Left-hand cover 2M50357 is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Right-hand hinge 2M50358 is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
	Right-hand cover 2M50403 is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
1.20.1.1	Hinged flap (hand port), complete, left-hand, 2M50365, on front and rear												
	Note: The following test procedure refers to one side (front or rear).												
	Hinged flap is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										



Press left-hand lever, complete, 2M50368, fully down.

Hinged flap springs open.

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Close hinged flap.

Hinged flap engages audibly.

F

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Move the hinged flap to and fro with two fingers at the bottom edge and pull at the same time.

The hinged flap should not open.

F

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Left-hand hinge is undamaged (Note: If the hinge is damaged, replace the hand port, left-hand, 2M50365).

Z

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Press left-hand lever down.

The left-hand torsion spring opens the hinged flap (Note: If the torsion spring is damaged, replace the hand port, left-hand, 2M50365).

F

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Close hinged flap.

1.20.1.2 Hinged flap (hand port), complete, right-hand, 2M50375, on front and rear

Note: The following test procedure refers to one side (front or rear).

Hinged flap is undamaged.

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Press right-hand lever, complete, 2M50378, fully down.

F

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Hinged flap springs open.

Close hinged flap.

F

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Hinged flap engages audibly.

Move the hinged flap to and fro with two fingers at the bottom edge and pull at the same time.

F

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The hinged flap should not open.

Right-hand hinge is undamaged (Note: If the hinge is damaged, replace the hand port, right-hand, 2M50375).

Z

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Press right-hand lever down.

F

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The right-hand torsion spring opens the hinged flap (Note: If the torsion spring is damaged, replace the hand port, right-hand, 2M50375).

Close hinged flap.



1.20.1.3	Seal, long, 2M50417, on front and rear The seal is not overstretched, porous or torn.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
1.20.2	Small door, complete, 2M50410, on left-hand and right-hand sides Note: The following test procedure refers to one side only (left-hand or right-hand side). The small door is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
	Pull the closed small door at the center of the top edge.															
	Small door must not open.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
	Rotate both rotary knobs (color-coding locks) to the "open" position.															
	Color-coding (red) is visible.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
	Both rotary knobs (color-coding lock) 2M50418 are undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
	Fold small door down.															
	Small door can be opened easily without getting jammed.	F	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
	Both interlocks 2M50394 are undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
	Hose duct 2M50412 is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
	The seal, short, 2M50416, is not overstretched, porous or torn.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
1.21	Sensor unit The housing of the sensor unit is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
	The sockets of the skin-temperature sensors are undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
	The central alarm cap 2M50179 is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
	The cover 2M50169 of the O ₂ sensors is undamaged.	Z	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>													
1.22	Basic housing															
1.22.1	Column element with support, left-hand, 2M50381 (column element is located to the left of the large door) Note: The following test procedure refers to one column element (left-hand).															



Swing canopy cover open and place it onto the rear support.

Support 2M50397 is undamaged.

Z

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Column element is tightened securely and undamaged.

Z

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Mount for canopy cover is undamaged.

Z

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Tube module 2M50385 is undamaged.

Z

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1.22.2 Column element, right-hand 2M50391
(column element is located to the right of the large door)

Note: The following test procedure refers to one column element (right-hand).

Swing canopy cover open and place it onto the support.

Open the small door.

Column element is tightened securely and undamaged.

Z

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Tube module 2M50385 is undamaged.

Z

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Mount for canopy cover is undamaged.

Z

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The tappet in the column element must be resilient.

Z F

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1.22.3 Filter mount

Z

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1.23 Mattress

Standard mattress (foam mattress) 2M50556 is clean, not torn or otherwise damaged.

Z

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SoftBed mattress MX17012 (option) is clean and undamaged.

Z

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Vacuum mattress 2M17909 (option) is clean and undamaged.

Z

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1.23.1 Mattress tray

Remove mattress.

Remove mattress tray from Caleo.

Mattress tray is undamaged.

Z

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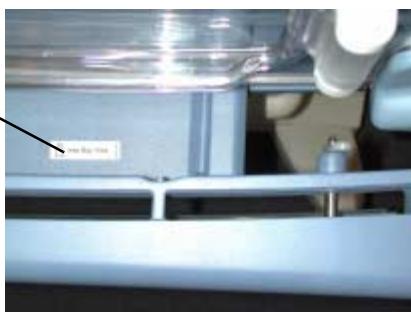
1.24 X-ray drawer

Rotate both rotary knobs of the X-ray drawer to the "Eye" position.

Pull out the X-ray drawer as far as it will go.

The "max 5 kg" label 2M 50 732 is located to the right inside the X-ray drawer.

"max 5 kg"
label



Hold the X-ray drawer at the handle side, carefully lift it a little and remove it from the Caleo.

X-ray drawer is undamaged.

Both short Teflon straps 2M20916 are undamaged (Note: Short Teflon straps are attached to the front top side of the X-ray drawer).

Both long Teflon straps 2M20916 are undamaged (Note: Long Teflon straps are attached to the front bottom side of the X-ray drawer).

Turn each rotary knob 2M50395 left and right individually.

It should be possible to turn the rotary knobs by 90°. Both rotary knobs should stop reliably in any position.

Both eccentrics 2M50216 are undamaged.

Seal 2M50222 is not porous or otherwise damaged (Note: The seal is located at the front on the underside of the X-ray drawer).

Push aside the snap-to guides 2M50227 of the intermediate element with air guide plate and remove the intermediate element with air guide plate from the Caleo.

Snap-to guides are undamaged.

Z

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Z

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Z F

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Z

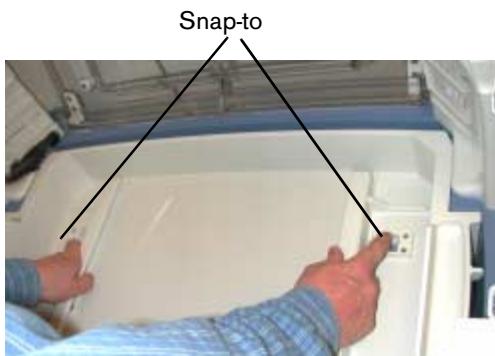
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Z

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F Z

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1.24.1 Air guide

The air guide is in perfect condition.

Z

<input type="checkbox"/>									
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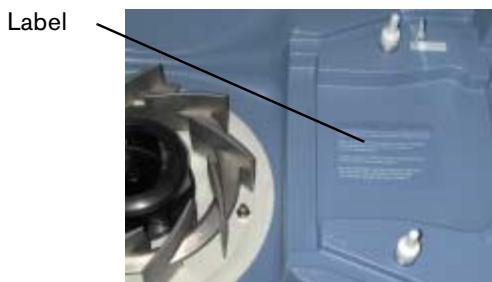
1.24.2 Basic housing, interior

Basic housing is undamaged.

Z

<input type="checkbox"/>									
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"Switch off device and allow heater to cool down for 90 min. before touching the surface" label



Label is legible and undamaged.

Z

<input type="checkbox"/>									
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1.24.3 Fan wheel

Take off fan wheel.

Fan wheel 2M50271 is undamaged.

Z

<input type="checkbox"/>									
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Both magnets on underside of fan wheel are fitted.

Z

<input type="checkbox"/>									
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Coupling (taper) 2M20542 is undamaged.

Z

<input type="checkbox"/>									
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1.24.4 Fan failure warning

Plug power plug of Caleo into mains socket.

Switch on the Caleo at the power switch.

An audible and a visual alarm are triggered. "Fan failure" is shown on the display.

F

<input type="checkbox"/>									
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Switch off the Caleo at the power switch.



1.24.5	Air heater	
	Corrugated seal 2M50257 is undamaged.	Z
1.24.5.1	Aggregate seal	
	Aggregate seal 2M50235 must abut tightly. It must not be kinked.	Z
	Fit fan wheel.	
	Switch on the Caleo at the power switch.	
	No audible or visual "Fan failure" alarm is triggered.	Z
	Switch off the Caleo at the power switch.	
	Pull power plug of Caleo out of mains socket.	
1.25	Scale (option)	
	Weighing elements are undamaged.	Z
	Plastic caps (4x) are undamaged.	Z
	Refit basic housing.	
1.26	Aggregate housing	
	Check the following assemblies every 2 years:	
	Next check: _____	
	Move mattress tray to central position.	
	Take power plug out of mains socket.	
	Remove compressed gas connector from gas terminal unit of central gas supply or compressed gas cylinder connection.	
	Close clamp on conduit set. Unscrew connecting tube for water supply from the water connecting pipe.	



Electrostatic discharge may damage electrostatic-sensitive devices. Use a static-dissipative mat and a wrist strap when handling electrostatic-sensitive devices.

Create ESD conditions.

- 1.26.1 Aggregate

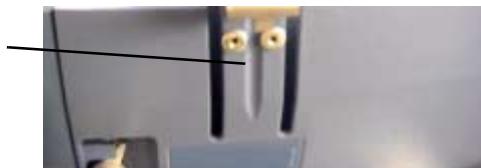
Unscrew the cable connector of the aggregate from the trolley.

Open the aggregate housing by removing the screws of the aggregate housing next to the height adjustment using a 6-mm Allen key.



Lift the aggregate housing and push in and firmly hold the catch in this position, then allow aggregate housing to swivel out as far as the retaining strips (Note: The catch is located next to the water connecting pipe).

Catch



Disconnect the connecting cable of the sensor box.

Disconnect the connecting cable of the scale (option).

Support the aggregate with one hand and remove the retaining bands.

Remove the aggregate.

Remove fan wheel and coupling (taper).

Open the aggregate cover by removing the 8x M4 hex socket screws and washers.

1.26.2 Installation of electrical cables

Electrical cables are not damaged and are secured with cable ties. They are not blocking the fresh air duct.



1.26.3 Water boiler with water level controller

Turn water connecting pipe 90° clockwise and pull out.

Dismantle water heater and water level controller by removing the 2x M4 screws.

Lift up water boiler.

Position water boiler so that no water can flow into the aggregate housing during subsequent tests.

Pull off the water pipe guide.

The evaporation cap (rubber), 2M20292, has a preferred position. **Mark this position before removing the evaporation cap.**

Undo hose clamp. Remove evaporation cap.

Drain water from water boiler.



No dirt should be in the water boiler; clean if required.

Z

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Undo the hose clamp and slide the float cover 2M50283 off the water level controller.

Replace float cover, see "Spare items used".

No dirt should be in the water level controller; clean if required.

Z

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Replace large O-ring on the housing of the water level controller, see "Spare items used".

Replace small O-ring on float, see "Spare items used".

Reassemble water boiler and water level controller.

Fit evaporation cap; observe the preferred position (see previously marked position).

Fit the water boiler into the aggregate
(Note: Install all lines correctly and plug the overflow tube into the outlet port).

1.26.4 Toroidal transformer

The toroidal transformer is undamaged.

Z

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The toroidal transformer is pressed into the aggregate with a silicone tube in the aggregate cover.

1.26.5 Replace fan motor and fan-motor suspensions, see "Spare items used".

Center corrugated seal fitted on air heater with cover. Place air heater with cover vertically onto aggregate (Note: **Tighten cover screws (8x) to a torque of 3.5 Nm +0.5 Nm!**)

Fit fan wheel and taper.

Mount aggregate into Caleo.

Attach retaining strips to aggregate.

Connect cables of sensor box and scale (option) to Caleo and mount aggregate onto basic housing.



2. Spare items used
 - 2.1 * Fresh-air filter MX17015

Replace fresh-air filter every 6 months.
Pull out fresh air filter. Tilt the housing at an angle to make it easier to remove the fresh air filter.

Next replacement:_____
 - 2.2 * Bacterial filter CH00102 for secretion suction device (accessory)

Replace bacterial filter every 6 months.

Next replacement:_____
 - 2.3 * Lithium battery 1835343

Replace lithium battery every 2 years; remove the cover on the rear panel of the display housing to do so. Install the new lithium battery within 5 minutes from removing the old one, otherwise data could be lost and the power-on time monitoring for the height and tilt adjustments could be activated. Note: Motor can only be reactivated after a certain delay.).

Next replacement:_____
 - 2.4 Hose ducts 2M50412

Replace hose ducts if necessary.
 - 2.5 Hose modules 2M50385

Replace hose modules, if necessary.
 - 2.6 * Fan motor

Replace fan motor after 18000 to 20000 operating hours or in the event of bearing running noise (Note: Write down operating hours of Caleo when replacing the fan motor).

Operating hours:_____

* Fan motor suspensions 2M50274

Replace also fan motor suspensions (4x) when replacing the fan motor.

Note: The fan motor suspensions are flush with the guides in the aggregate housing. They must be pressed firmly down after fitting the fan motor.



2.7 * Sintered filter D02316
Replace sintered-metal filter in O2 connector every 2 years (Note: Unscrew sintered filter in gas connector using a screwdriver).

Next replacement:_____

2.8 * Sealing ring 2M50346
Replace sealing ring in water connecting pipe once a year.
Incline the Caleo so that the water connecting pipe is accessible. Turn water connecting pipe 90° clockwise and then pull out.

Next replacement:_____

2.9 * Small O-ring E20287
Replace O-ring on float every 2 years.
Next replacement:_____

2.10 * Large O-ring 2M50284
Replace O-ring on housing of water level controller every 2 years.
Next replacement:_____

2.11 Float cover 2M50283
Replace float cover of water boiler every 2 years.
Next replacement:_____

3. Safety check
The following steps describe the safety checks according to VDE 0751 and IEC 60601 (or UL 2601). The decision whether to carry out safety checks according to VDE 0751 **or** IEC 60601 must be based on national regulations (e.g., VDE 0751 applies to region "Germany"). Electrical safety checks should be carried either according to VDE 0751 (chapter 3.3) or IEC 60601 (chapter 3.4).

Caleo is switched off. Make sure the power plug is unplugged.

3.1 Power cable
Check that the power cable is undamaged.

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3.2

Fuse links

The fuse links match the details on the rating plate.

Z

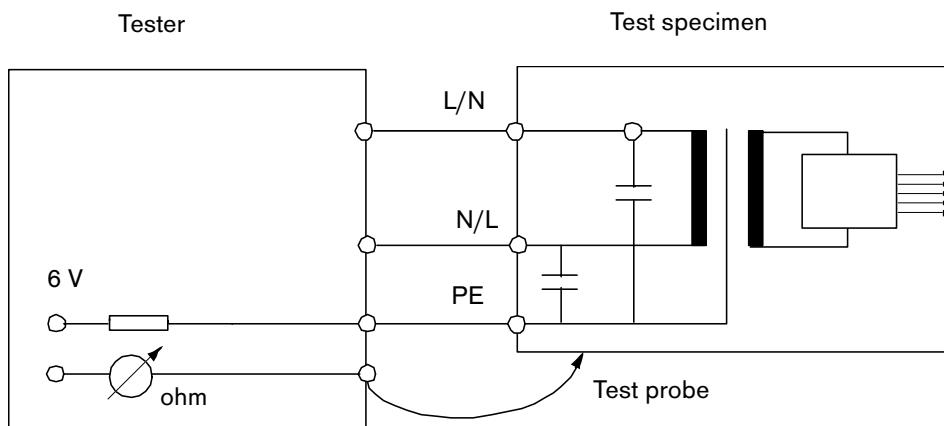
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3.3

Electrical safety check according to VDE 0751.

3.3.1

Protective earth conductor test



Protective earth conductor test

Explanation of illustration: A test a.c. voltage of approx. 6 V is applied to the test probe through a current limiter. The conductive parts of the test specimen are scanned with the test probe. The protective earth conductor resistance is calculated from the current flow. The protective earth current should be at least 10 A.

Measure the protective earth conductor resistance at the following items:

- Ground stud

The protective earth conductor resistance should be less than/equal to 0.2 ohms.

P

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- Pole, short

The protective earth conductor resistance should be less than/equal to 0.2 ohms.

P

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- Pole, long (option)

The protective earth conductor resistance should be less than/equal to 0.2 ohms.

P

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- Rails for accessories

The protective earth conductor resistance should be less than/equal to 0.2 ohms.

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- Air heater

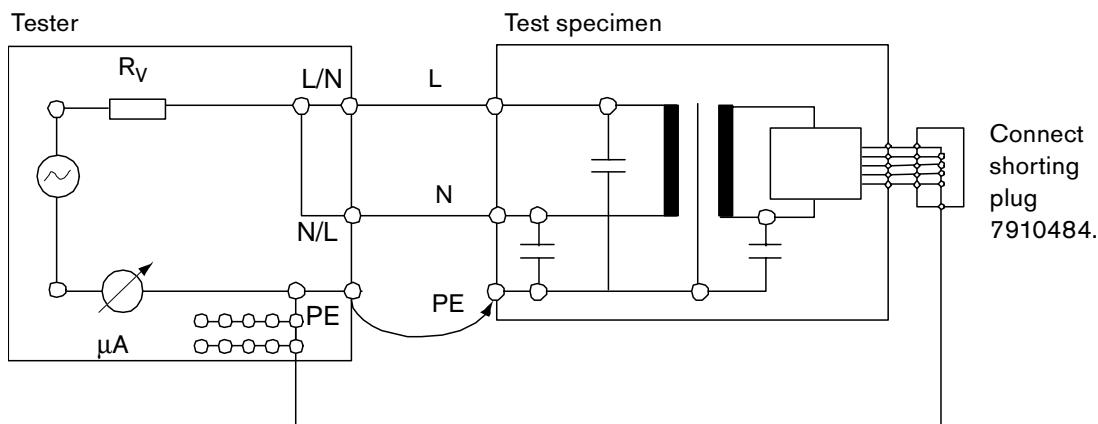


The protective earth conductor resistance
should be less than/equal to 0.2 ohms.

P

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3.3.2 Equivalent device leakage current



Explanation of illustration: A test voltage the same level of the mains voltage is present at the short-circuited mains connection of the test specimen. The current that flows from the live parts via the insulation and the capacitors as well as from the short-circuited applied part sockets to the protective earth conductor is the equivalent device leakage current.

Connect the test case to Caleo using the power plug.

Switch on Caleo.

Subsequent measurements may exceed the first-measured value by max. 50% but must at the same time be $\leq 750 \mu\text{A}$.

Initial value

$I_{\text{leak}} \leq 750 \mu\text{A}$ μA

Note:

The initial value should always be transferred to a new Test Certificate.

Test value: Actual value $\leq 750 \mu\text{A}$

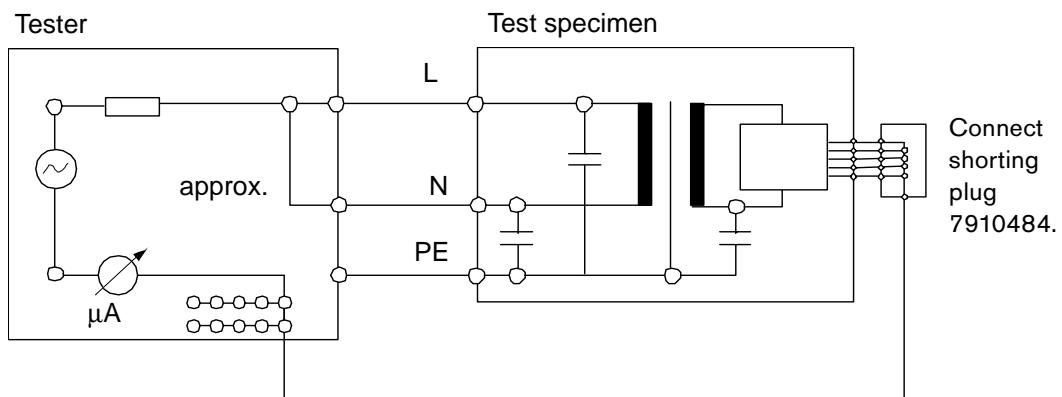
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Switch off the Caleo.

3.3.3

Equivalent patient leakage current (skin-temperature module)



Explanation of illustration: Apply a test voltage the same level as the mains voltage to the short-circuited mains connections. The current that flows through the capacitors, the insulation, and the connected user connections is the equivalent patient leakage current.

Warning:

The measurement voltage is 242 V (AC).

Subsequent measurements may exceed the first-measured value in the Test Certificate by max. 50% but must at the same time be $\leq 120 \mu\text{A}$.

With first-measured values $<20 \mu\text{A}$ subsequent measurements may differ by up to $10 \mu\text{A}$.

Initial value μA

Note:

The initial value should always be transferred to a new Test Certificate.

Test value: $I_{\text{leak}} \leq 120 \mu\text{A}$

P

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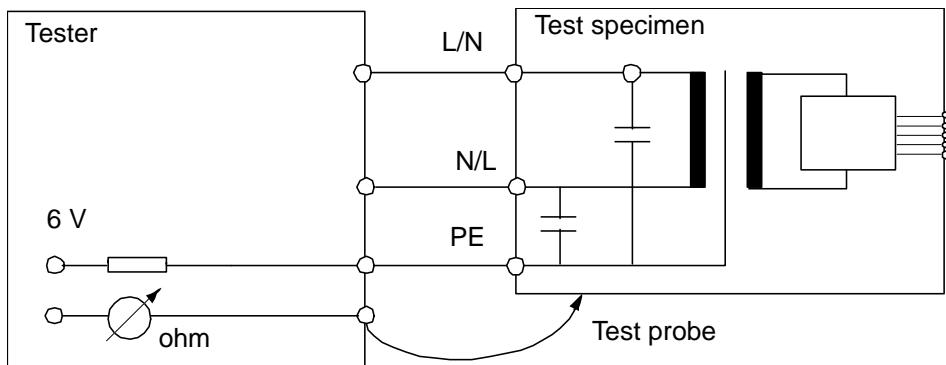
Remove test set-up.

3.4

 Electrical safety check according to IEC 60601. (Checks according to IEC 60601 also cover checks according to UL 2601. Differing limit values are marked.)

3.4.1

Protective earth conductor test



Explanation of illustration: A test a.c. voltage of approx. 6 V is applied to the test probe through a current limiter. The conductive parts of the test specimen are scanned with the test probe. The protective earth conductor resistance is calculated from the current flow. The protective earth current should be at least 10 A.

Measurement is taken with a test voltage of $U = 6 \text{ V}$ and a test current of $I = 10 \text{ A}$.

Using the test probe of the tester measure the resistance to the metal parts of the Caleo. Enter the measured protective conductor contact resistance in the Test Certificate.

Measure the protective earth conductor resistance at the following items:

- Ground stud on electronics-trolley assembly

The protective conductor resistance should be less than 0.2 ohms.

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- Pole, short

The protective conductor resistance should be less than 0.2 ohms.

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- Pole, long (option)

The protective conductor resistance should be less than 0.2 ohms.

P

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- Rails for accessories

The protective conductor resistance should be less than 0.2 ohms.

P

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- Air heater

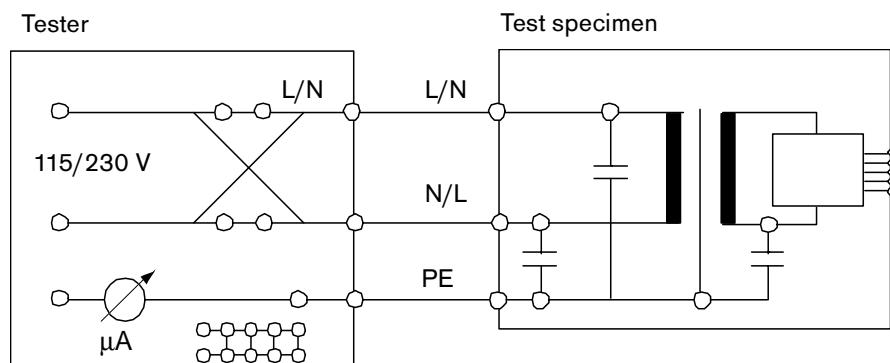


The protective conductor resistance should be less than 0.2 ohms.



3.4.2

Earth leakage current



Explanation of illustration: The mains voltage is applied as test voltage to the mains connection of the test specimen. The test specimen is in operating mode. The current that flows from the live parts through the insulation or capacitors to the protective earth is the earth leakage current. The protective conductor is interrupted in the event of a single-fault condition (SFC).

Caleo and test case are connected with a power plug.

Normal condition (N.C.)

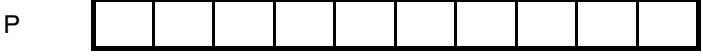
Target value: $I_{\text{earth}} \leq 500 \mu\text{A}$



(according to UL 2601: $I_{\text{earth}} \leq 300 \mu\text{A}$)

Single fault condition (S.F.C.): Power conductor interrupted.

Target value: $I_{\text{earth}} \leq 1000 \mu\text{A}$



(according to UL 2601: $I_{\text{earth}} \leq 300 \mu\text{A}$)

In the following steps the earth leakage current test is repeated, but with the power plug turned over. This condition can be created internally in some types of testers (for example, Secutest).

The Caleo and the tester are connected with a turned-over power plug.

Normal condition (N.C.)

Target value: $I_{\text{earth}} \leq 500 \mu\text{A}$



(according to UL 2601: $I_{\text{earth}} \leq 300 \mu\text{A}$)

Single fault condition (S.F.C.): Power conductor interrupted.

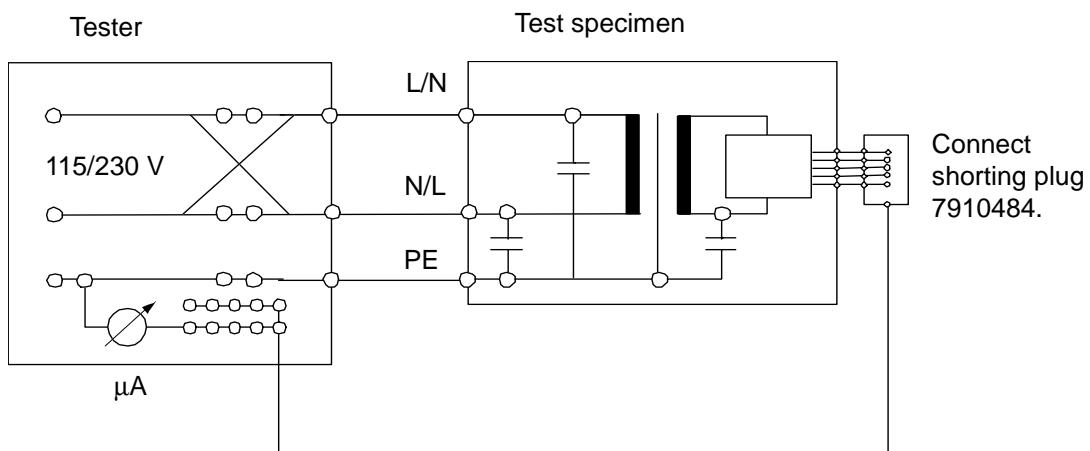


Target value: $I_{\text{earth}} \leq 1000 \mu\text{A}$
(according to UL 2601: $I_{\text{earth}} \leq 300 \mu\text{A}$)

P



3.4.3 Patient leakage current (type BF)



Explanation of illustration: The mains voltage is applied as test voltage to the mains connection of the tester. The current that flows from the connected connections of the applied part to the protective conductor is the patient leakage current.

The protective conductor is interrupted in the event of a single-fault condition (SFC).

Connect the test plug (7910484) to the HT module. Connect the test probe of the test case to the test plug.

Normal condition (N.C.)

Target value: $I_{\text{pat}} \leq 100 \mu\text{A}$

P



Single fault condition (S.F.C.): Power conductor interrupted.

Target value: $I_{\text{pat}} \leq 500 \mu\text{A}$

P



In the following steps the patient leakage current test is repeated, but with the power plug turned over.

Normal condition (N.C.)

Target value: $I_{\text{pat}} \leq 100 \mu\text{A}$

P



Single fault condition (S.F.C.): Power conductor interrupted.

Target value: $I_{\text{pat}} \leq 500 \mu\text{A}$

P





4. Functional tests

Reassemble Caleo ready for use.

Perform the function test at a room temperature of 20 to 28 °C.

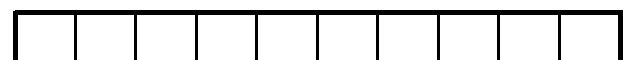
4.1 Self test

Plug the power plug into the mains socket-outlet.

Connect O₂ supply (option).

Switch on the Caleo at the power switch.

Caleo runs through its self-test. All pixels are actuated for approx. 1.5 s. All LEDs are actuated.



F

4.2 Power failure alarm/data protection

Prerequisite: Caleo is connected to mains power supply and is switched on.

Set the air-temperature target value to 37.1 °C.

Pull power plug of Caleo out of mains socket.

Caleo generates a visual and an audible alarm.



F

Plug power plug of Caleo into mains socket.

The set air-temperature target value of 37.1 °C should remain.



F

4.3 Inclination of mattress tray



Caleo has a power-on time monitoring. If the motor does not start, wait a few minutes and then repeat the test.

Keep left-hand inclination key depressed until the inclination motor switches off in its limit position.

Caleo moves into left-hand limit position.

F



Keep right-hand inclination key depressed until the inclination motor stops in its limit position.

Caleo moves into right-hand limit position.

F



Move Caleo into center position.

 Plug skin-temperature sensors into the sockets.

Read out and write down configured alarm limits of Caleo (air temperature, skin temperature, and O₂).

- **i For the following tests in Config mode, set the alarm limit for air temperature to 1.5 °C, for skin temperature to 1 °C, and set O₂ to 5 vol.% and ΔT to T2 .**

4.4 Air temperature control

Set the target value to 36 °C.

Perform a comparative measurement using thermometer 2M11111 or Testo-Therm. To do so, suspend thermometer or temperature sensor of Testo-Therm 10 cm above the center of the mattress tray.

Wait for heating-up phase.

The test value is 36 °C ±1 °C.

Set target value 1.6 °C lower.

A visual and an audible alarm are triggered.

F

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Set target value 1.6 °C higher.

F

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A visual and an audible alarm are triggered.

F

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Display message: "Air temperature deviation".

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Confirm display message with the control knob.

Set air temperature to 36 °C.

4.5 Skin temperature control

Connect skin temperature sensors on Caleo. Position the ends at the thermometer (2M11111).

The measured value is 36 °C ± 1 °C.

T1 is the message from the yellow sensor, T2 or ΔT is the message from the white sensor.

The following is shown in the display: T1 = 36 ±1 °C, T2 = 36 ±1 °C

Press Air/Skin key.

Switch to skin temperature control.



Set target value of skin temperature 1.1 °C lower than the actual value.

A visual and an audible alarm are triggered.

Set specified value 1.1 °C higher.

A visual and an audible alarm are triggered.

Display message: "Skin temperature deviation".

Confirm the message with the control knob.

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4.6 Sensor test

Pull yellow skin temperature sensor connector out of the sensor socket.

A visual and audible alarm should be activated after approx. 10 seconds.

Display message: "Connect sensor 1".

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Plug yellow skin-temperature sensor connector into sensor socket.

Pull white sensor connector out of the sensor socket.

No alarm is triggered. Measured value on display disappears.

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Pull yellow skin-temperature sensor connector out of the sensor socket.

Create a short-circuit at the sensor socket of the yellow skin-temperature sensor connector using a wire link.

A visual and audible alarm should be activated after approx. 3 seconds.

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Remove wire link.

Create a short-circuit at the sensor sockets of the white skin-temperature sensor connector using a wire link.

A visual and audible alarm should be activated after approx. 3 seconds.

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Remove wire link.

Plug both skin-temperature sensors into the sensor sockets.

The alarm stops.

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The measured value appears on the display.

 Perform measuring check (MTK) every 2 years.

4.7 Pneumatic O₂ control (option)

4.7.1 Calibrate O₂ sensors at 12-month intervals.

4.7.2 Testing the pneumatic O₂ control

Connect O₂ compressed-gas supply to Caleo.

i The O₂ leak test must be carried out with the O₂ solenoid valve activated. This is only the case if there is a great deviation between target and actual value after switching on the pneumatic O₂ control. Therefore, the subsequent test steps up to and including test step "O₂ leak test" must be carried out as fast as possible.

Switch on the O₂ control.

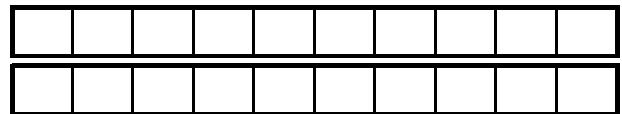
Set target value to 50 vol.%.

There is a "barrier" at > 40 vol.% which can be exceeded by pressing the control knob.

Display message: " >40 vol.%".

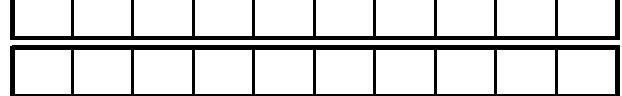
A visual and an audible alarm are triggered.

F



Display message: "O₂ deviation".

F



4.7.3 O₂ leak test

Measure the O₂ leak rate using an O₂ analyzer, e.g. Oxydig, by holding the O₂ sensor for approx. 1 minute at the bottom of the pneumatic O₂ control opening
(Note: The pneumatic O₂ control opening is located next to the filter box, see Figure).



Fig.: Bottom view of the filter box

The test value is \leq 45 vol.%.

F





4.7.4 O₂ measurement in the steady state

In the steady state, the display of the Caleo shows a test value of 50 ±3 vol.%.

F



Set target value 6 vol.% higher to 56 vol.%.

F



A visual and an audible alarm are triggered.

F

Set specified value 6 vol.% lower to 44 vol.%.



A visual and an audible alarm are triggered.

F

Confirm the message with the control knob.

4.8 External addition of oxygen

Function "External addition of oxygen" not available yet.

4.9 Humidity module (option)

4.9.1 Humidity control

Activate humidity control.

Set specified value to 75%.

A value of 75% ±5% is reached and the hood starts to mist up.

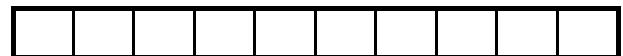
F



4.9.2 Water failure warning

Interrupt water supply, unscrew the tube of the conduit set to do so.

F



A visual and an audible alarm are triggered.

F



Display message: "Water tank empty".

Confirm message with the control knob.

Screw tube of conduit set back on.

Display message goes out.

F



4.9.3 Humidity control

Start up humidity module.

Set specified value to level 10.

F



Canopy starts to mist up.

4.10 Scale (option)

4.10.1 Calibrating the scale annually

 Caleo must be level. Pay attention to water scales in Caleo.

To activate DS mode, press the "Menu" and "Horn off" keys simultaneously for approx. 4 seconds.

Select "Calibration" and confirm with the control knob.

Select "Scale" and confirm with the control knob.

Remove any weight from the mattress tray.

Press control knob, scale is counterbalanced.

Calibrate scale with 1-kg test weight, part no. 7911115; place the test weight centrally on the mattress tray to do so.



Enter calibration value of 1000 g.

Press the control knob.

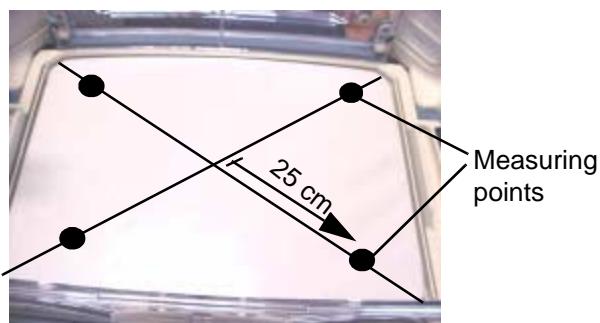
Exit DrägerService Mode.

4.10.2 Checking the scale

Press "Scale" key.

Take test weight off the mattress tray.

Place the test weight subsequently on all 4 measuring points of the mattress tray.





The display should indicate the measured value of $1000\text{ g} \pm 3\text{ g}$ in each case.

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4.11

Service interval

Activate DS mode, press the "Menu" and "Horn off" keys simultaneously to do so.

Select "Information" and confirm with the control knob.

Select "Service interval" and confirm with the control knob.

Enter interval time according to data or operating hours.

Enter configured alarm limits of Caleo (air temperature, skin temperature, and O₂) as written down earlier.

Switch off the Caleo at the power switch.

5. Place fully functional Caleo to the user's/owner's disposal.

6. Confirmation of test

Name:

Date:

Signature:

- * These steps are regarded as repair work and are therefore not included in the inspection service price.



7. Report:



8. Annex

8.1 Test equipment list

VDE tester, complete	79 00 234
Secu-Test or	79 10 594
Country-specific tester for 110/127 V mains voltage range	
Thermometer	2M 11 111
Skin-temperature shorting plug	79 10 484
Test weight 1 kg	79 11 115
Oxydig, complete, or	83 04 411
Country-specific oxygen analyzer	
O2 flowmeter	2M 85 502
Connecting port	M 06 258
Torx wrench bit	79 10 583
Handle for Torx wrench bit	79 10 520